

## 2010-2011 Annual Report



# National Scholars Program



## *our Mission Statement*

In collaboration with other University offices and programs, the mission of Clemson's National Scholars Program (NSP) is as follows:

- Recruit and select the top high school students from throughout the United States.
- Provide a competitive scholarship that covers all tuition, fees and other required expenses.
- Coordinate a rewarding summer of study and travel in Great Britain.
- Create and program intellectually challenging and rewarding enrichment opportunities.
- Provide individual and group advising that addresses and enhances the National Scholars' interests and skills.
- Prepare the National Scholars to excel in graduate school and on fellowship applications.

## *our supporters*

The NSP is thankful to the Clemson Office of Development for its support and deeply grateful for the considerable generosity of several Clemson alumni, including

- The estate of Mr. and Mrs. William M. Ballenger, Class of 1923
- J. Anderson Berly III, Class of 1978
- Mr. and Mrs. Frank M. Bishop Jr., Class of 1965
- Dr. and Mrs. Paul W. McAlister, Class of 1941\*
- The E. Smyth McKissick III '79 Clemson National Scholars Endowment
- Dr. and Mrs. Richard A. McMahan, Class of 1954\*\*
- Dr. and Mrs. R. Roy Pearce, Class of 1941\*\*\*

\*Dr. McAlister passed away in January 2007.

\*\*Dr. McMahan passed away in January 2011.

\*\*\*Dr. Pearce passed away in November 2004.

# cultivating an Amazing Scholar Experience

“In interacting with other National Scholars and Clemson students, I was most surprised by having some of my ideals and beliefs challenged. Coming from a smaller high school, I was not used to engaging in educational and intellectual discussions of my core principles. As a National Scholar, I was challenged to defend my principles through logical thinking and intellectual argument.”

— Susie Irizarry

The 12 NSP seniors no doubt share Susie’s sentiment. Their educations and lives were enriched by the challenging conversations held in classrooms, residence halls and professors’ offices; by studying, volunteering and researching around the globe; and by leading countless organizations at Clemson. These students have already been offered fully funded admission to top graduate programs and medical schools (including the California Institute of Technology, the University of California at Berkeley, the Massachusetts Institute of Technology, Princeton University, Stanford University and the University of Texas) and job offers from Fortune 500 Companies (including Eastman Chemical and KPMG).

All of these scholars will leave Clemson with a “toolbox” full of the leadership, analysis, research and communication skills they developed in a number of roles during their time as a Tiger, including serving in the following capacities:

- Presidents of fraternities and sororities
- President of Habitat for Humanity
- Chair of several Student Senate committees
- Station manager at WSBF-FM
- Editors at *The Tiger* student newspaper
- Members on multiple college- and Universitywide student advisory boards
- President of Omicron Delta Kappa
- Members of Phi Beta Kappa
- Recipient of a Goldwater Scholarship
- Travelers and students in China, England, Scotland, Germany, Belize, Ecuador, the American West, Guatemala, Kenya and the Netherlands

So much could be written about these 12 students’ successes and accomplishments. However, we’ll let the students tell their own stories through their senior profiles — stories about how they’ve changed, what they’ve learned and what they’ll miss about Clemson *in their own words*.

# The National Scholars Number

1488

The average SAT score for all National Scholars. Currently, the average SAT score for Clemson freshmen is 1231.

Number of books, films and news topics examined in Scholar-led discussion series

74

9 National finalists for the Marshall, Rhodes and Truman scholarships

9 Goldwater Scholars, the top award for students in engineering and science

Presidents of Clemson's Habitat for Humanity, the 2008 national chapter of the year

4

2 Recipients of the Algernon Sydney Sullivan Award for a graduating senior

Recipients of the National Science Foundation's Graduate Research Award

4

54

Men

61

Women

1 Student Body President, Vice President and Treasurer

## Countries Visited by National Scholars

Even though we just crossed the 100-scholar milestone in 2009, the National Scholars and alumni have studied, researched, interned and volunteered at hundreds of locations around the world. The map illustrates the 45 countries where scholars have made an impact and have been impacted by the world.

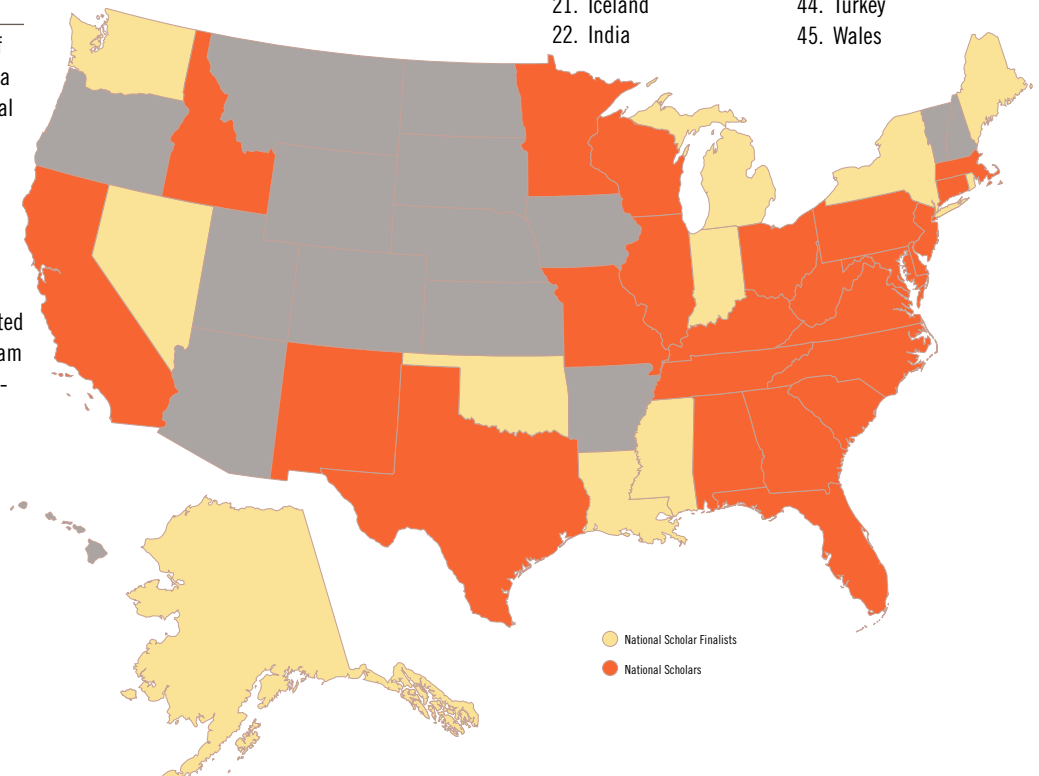
1. Argentina
2. Australia
3. Bahamas
4. Bangladesh
5. Belgium
6. Belize
7. China
8. Costa Rica
9. Dominican Republic
10. Ecuador (including Galapagos)
11. Egypt
12. El Salvador
13. England
14. Ethiopia
15. France
16. Germany
17. Ghana
18. Greece
19. Grenada
20. Guatemala
21. Iceland
22. India
23. Indonesia
24. Ireland
25. Italy
26. Japan
27. Kenya
28. Malawi
29. Mexico
30. The Netherlands
31. Norway
32. Peru
33. Russia
34. Rwanda
35. Scotland
36. Slovakia
37. South Africa
38. South Korea
39. South Sudan
40. Spain
41. Sweden
42. Switzerland
43. Tanzania
44. Turkey
45. Wales

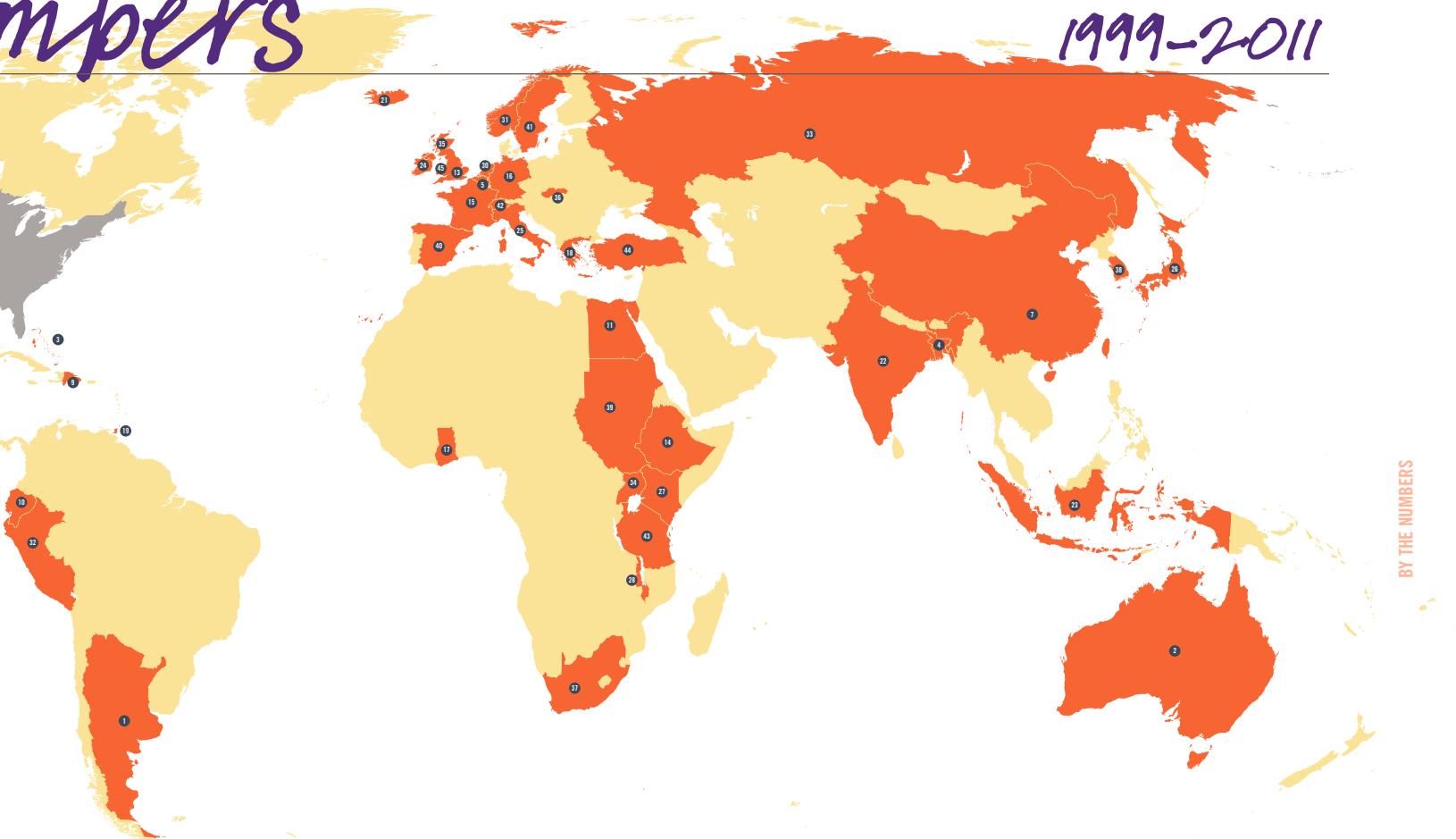
## National Scholars by State

In 1999, Clemson President James Barker said of the then-new National Scholars Program, "To be a national university, Clemson must have a national caliber scholarship program, and this is it."

With that guiding principle, the NSP has named **465** students as finalists from **35** states, from California to Maine.

Of those 465 finalists, **115** from **23** states accepted the invitation to join the National Scholars Program and have helped transform Clemson into a world-class institution.





**15** Members of Phi Beta Kappa, the most prestigious college honor society for students in liberal arts; Clemson's chapter founded in 2007

**3,343 hours, 43 minutes**

Total amount of round-trip time traveled by National Scholars on NSP foreign and domestic educational enrichment trips

Participants in the National Science Foundation's Research Experiences for Undergraduates **18**

**9** Inductees into Clemson's chapter of *Who's Who Among American College Students*

Captains of intramural teams **19**

**45%**

Scholars ranked No. 1 in their high school graduating class

**9** Inductees into the Order of the Blue Ridge

Recipients of the Norris Medal for most outstanding graduating senior **4**

**4** Editors of *The Tiger* student newspaper

Recipients of the Athletic Director's Award of Excellence **2**

**2** Recipients of the Nick Lomax "Rising Star" Award for outstanding freshman leader

Recipients of the Phil Prince Student Personal Development Award **2**

**1,643,050**

Number of collective miles traveled by National Scholars on NSP foreign and domestic educational enrichment trips.

**115** National Scholars

# Achieng Adongo

## Key Involvement, Leadership and Recognition:

- Society of Women in Engineering
- Cross Impact Campus Ministries (Spring Break mission trips to University of Florida-Gainesville)
- Circle K (bulletin editor, co-organizer of Better World Books Drive)
- National Society of Black Engineers (Pre-college Initiative mentor)
- Alpha Omega Epsilon (social chair)
- Intercultural Achievement Award

## Select Learning Experiences:

- LeaderShape Institute, summer 2007
- Cooperative education program with BlueCross BlueShield, Columbia, S.C., 2009-2010
- Foundation for Sustainable Development, Likoni Community Development Program, Mombasa, Kenya, summer 2009



Orangeburg, S.C.  
Major: Industrial Engineering

*Four years later.* College passes in the blink of an eye. The 12 men and women who entered Clemson as anxious teenagers will

*Elizabeth Sloan:* "I have encountered so many different situations, diverse people and varied learning experiences since I have been at college. I am definitely more confident in myself and my abilities. I have a direction in my life and finally know what I want to do."

*Joshua von Rango:* "I've definitely changed a lot since freshman year. College would be a waste of time if I left the same as I came in. Problems in life are no longer as black and white as I saw them when I was entering college. The questions that kept me up at night didn't have answers in textbooks. Understanding this has definitely changed the way I approach problem-solving."

*Zachary Musgrave:* "I'm more mature now. The support system that NSP provides, especially freshman year, let me be serious from the get-go about experiencing all that Clemson has to offer. By joining clubs and organizations, conducting research and learning from the people around me, I've grown into a person who can adapt quickly to new situations."





Mechanicsville, Va.  
Major: Economics

### Key Involvement, Leadership and Recognition:

- Undergraduate Student Senate (academic affairs chairman, finance and procedures vice-chairman)
- Theta Chi Fraternity (president, scholarship chairman)
- Collegiate SERTOMA Club (vice president of fundraising)
- Tiger Marching Band (section leader)
- General Education Task Force (chairman)
- National Scholars Program Retreat Team (team leader)
- College of Business and Behavioral Science Student Advisory Board (representative)
- Omicron Delta Kappa, the National Leadership Honor Society

### Select Learning Experiences:

- Internship, Federal Reserve Bank of Richmond, Department of Public Affairs, summer 2009
- Internship, Federal Reserve Bank of Richmond, Statistics and Corporate Planning departments, summer 2010
- Colloquium for Undergraduates, Property and Environment Research Center, Bozeman, Mont., summer 2010

graduate as confident adults in 2011.

*Judith Crews:* "Having a group of people like the National Scholars pushes me to work harder to set greater goals for myself, knowing that I have their full support and a shared sense of determination and persistence for reaching higher standards."

*Carlin Fowler:* "Coming into Clemson freshman year, I had no idea what I wanted to do. Clemson and NSP have given me the opportunities and the support to explore many different areas, leading me to finally realize my passion for mathematics."

*Peid Sanders:* "Over the past four years, I learned that many people think and act in ways I had always thought were uniquely my ways. I also learned that there are as many or more things I believed common to everyone that actually are unique to me. Also, it's rather cliché to say that I've become more open-minded, but I certainly have. I learned that always trying to understand other viewpoints and take other insights to heart is important, but articulating my current beliefs or viewpoints best is also necessary."

# Judith Crews

## Key Involvement, Leadership and Recognition:

- Dixon Fellows Program
- Order of Omega (Greek honor society)
- Kappa Alpha Theta Fraternity (recruitment chair, administrative secretary)
- Alpha Lambda Delta Honor Society
- Phi Kappa Phi Honor Society
- Golden Key Honor Society
- Holmes Hall Advisory Committee
- American Institute of Architecture Students
- 2010 Rudolph E. Lee Award for Academic Excellence in Undergraduate Architecture

## Select Learning Experiences:

- Internship, Elemi Architects, Chattanooga, Tenn., summer 2009
- Study abroad, Charles E. Daniel Center for Building Research and Urban Studies, Genoa, Italy, spring 2010
- Internship, TWH Architects, Chattanooga, Tenn., summer 2010



Dayton, Tenn.  
Major: Architecture

*The highlights.* They sought opportunities to learn and grow, both in and out of the classroom, and now the senior scholars re

*Joshua von Pange:* "The most challenging moment for me during my time at Clemson was the beginning of my sophomore year when I was living in China. Living in Asia was much different than anything I had ever experienced before in my prior travels. Imagine how much our 200 to 300 years has shaped our culture as Americans, and then compare that to 5,000 years of history and culture. Immersing myself in this rich, vibrant culture has been one of the most challenging, yet most rewarding, experiences of my time at Clemson."

*Elizabeth Sloan:* "I've learned what time management means. Between holding several leadership positions on campus, being involved in many clubs and organizations, representing the University through ambassador programs, keeping up with my social life and still maintaining my class work, I have most assuredly become aware of the delicate balance and order in my life."

*Pay Smith:* "Being on the retreat team each year while I was at Clemson was extremely valuable. I feel like each year taught me something new about the process of simultaneously maintaining a leadership role and developing significant interactions with the incoming scholars."



# Jessica Dean



Summerville, S.C.  
Major: Psychology

## Key Involvement, Leadership and Recognition:

- Kappa Alpha Theta Fraternity (vice president of administration, service chair)
- Omicron Delta Kappa, the National Leadership Honor Society (president, vice president)
- Mortar Board (Miss Clemson pageant co-chair, membership chair)
- College of Business and Behavioral Science Student Advisory Board (psychology senior representative)
- Habitat for Humanity (president)
- Eugene Galluscio Award for Undergraduate Leadership from Clemson's Department of Psychology
- 2010 Frank Burtner Scholarship recipient

## Select Learning Experiences:

- Departmental Honors research with Robin Kowalski, Ph.D., Department of Psychology: "Bereavement: A Silent Epidemic on Clemson University's Campus"
- Creative Inquiry with Douglas Hirt, Ph.D., Department of Chemical Engineering: "Renewable Resource Polymers for Biomedical Applications," fall 2007
- Habitat for Humanity, Zacapa, Guatemala, summer 2009
- Internship, Foothills Alliance, Anderson, S.C., fall 2009
- Teaching assistant in Department of Psychology, fall 2010-spring 2011
- Creative Inquiry with Robin Kowalski: "Teasing and Bullying" and "Secret Revelation," fall 2009, spring 2011

member those key moments and lessons from their time at Clemson.

**Zachary Musgrave:** "My most enlightening moments with NSP happened just hanging out in the NSP office and spending time with my fellow scholars. I've learned so much from just being around them."

**Jessica Dean:** "My most challenging moment as a National Scholar came when I had to choose between taking advantage of an enriching opportunity in the National Parks and pursuing my degree and professional goals. Meeting with NSP staff encouraged me to not feel overwhelmed by all of the opportunities at my feet, but rather be thankful for them and choose those that fit my desires and goals most."

**Peid Sanders:** "Most of my favorite and enlightening moments as a National Scholar stem from personal interaction with unique people. For example, in Belize during a Maymester trip, I found myself sitting beside a river in the rain forest with two Mayan guides from the nearby village. We watched the stars, passed around a canteen and talked about concern that Mexico's drug war would spill into Belize, Obama's stance on immigration and the possibility of the river flooding."

# caitlin froulser

## Key Involvement, Leadership and Recognition:

- Kappa Alpha Theta Fraternity (president, vice president of public relations)
- Omicron Delta Kappa, the National Leadership Honor Society (membership chair)
- VOX Planned Parenthood (co-president, secretary)
- *The Tiger* student newspaper (copy editor)
- Dixon Fellows Program

## Select Learning Experiences:

- Departmental Honors research with Neil Calkin, Ph.D., Department of Mathematical Sciences: "Subspace Hypercyclicity in Hilbert Spaces of Finite Codimension"
- National Science Foundation Research Experience for Undergraduates: Linear chaos research group, SUNY Potsdam/Clarkson, summer 2010
- Presentation: "Hypercyclicity and Subspace Hypercyclicity of Invertible Operators in Hilbert Space," 2010 Young Mathematicians Conference
- Creative Inquiry with Hiren Maharaj, Ph.D., Department of Mathematical Sciences: "Analytic Number Theory," fall 2010-spring 2011



**Phi Beta Kappa**

Melrose, Mass.

Major: Mathematical Sciences

*surprise!* It's safe to say that the expectations of these National Scholars, in class and out, were met and exceeded in ways they

*pen poone:* "Whether it was walking down the streets of Brussels, enjoying an authentic German breakfast, hiking up and down Angel Landing in Zion National Park, running with the bulls in Pamplona or touring the Irish countryside, I was able to see the world as a much larger and more diverse place than I ever imagined."

*zachary musgrave:* "Being on a first-name basis with some of Clemson's highest caliber faculty was incredible."

*Jessica Dean:* "When I first came to Clemson, the tour guides and student ambassadors told me about this phenomenon on campus called the 'Clemson Family.' Based off of first impressions, I could tell that Clemson University was indeed a special institution, referring to the spirit of the students and faculty. However, I did not expect to feel a part of a family when there were 14,000 undergraduate students on campus. When I came to campus, I was surprised to find that the phenomenon did exist."



## Phi Beta Kappa

Palm City, Fla.

Major: Environmental and Natural Resources

## Key Involvement, Leadership and Recognition:

- Gamma Phi Beta Sorority (standards chair, dance team co-captain, vice president of education)
- Clemson University Guide Association
- Alpha Lambda Delta Honor Society (vice president of initiation)
- Woman's Leadership Initiative (co-chair of fundraising)
- Omicron Delta Kappa, the National Leadership Honor Society
- National Scholars Program Retreat Team (team leader)
- Order of Omega (Greek honor society)

## Select Learning Experiences:

- National Science Foundation Research Experience for Undergraduates: "Resilience of *Acer rubrum* Growth after Sustaining Damage Caused by an Experimental Blowdown," Harvard University, Harvard Forest, summer 2009
- Creative Inquiry with Jeffrey Fine, Ph.D., Department of Political Science: "Congressional Voting Trends," spring 2010
- National Science Foundation Research Experience for Undergraduates: "Impacts of Land Use Changes and Phosphorus Levels on Abundance and Reproductive Success of *Macrobrachium olfersi*," Duke University, La Selva Biological Station, summer 2010

never expected.

*Judith Crews:* "I think I have been most surprised at Clemson by the number of opportunities I have had for study abroad. One of the most appealing aspects of the NSP was the prospect of traveling during the summers in the UK or Maymester programs. Preparing for the study abroad programs with classes and guest lectures played a large role in opening my mind to the history and

lifestyle in these places. The same held true for my recent study abroad in Italy through Clemson's architecture program. Before entering Clemson, I never dreamed that my passport would be so filled with signs of extensive travel."

*Joshua von Fange:* "I was surprised at the sheer amount of opportunities that Clemson and the NSP opened up for me. The world is literally at your fingertips, and your willingness is the only thing that can hold you back."



# Jennifer Moffitt

## Key Involvement, Leadership and Recognition:

- Holmes Hall resident assistant
- Dixon Fellows Program
- Calhoun Honors College ambassador
- Alpha Lambda Delta Honor Society
- Relay for Life team leader
- Eastman Chemical Company Award for Excellence in Chemical Engineering, spring 2010

## Select Learning Experiences:

- EUREKA! summer honors research with Christopher Kitchens, Ph.D., Department of Chemical Engineering: "Preparation and Characterization of Cellulose Nanocrystals," 2007
- Joint research with Virginia Tech: "Fuel Pellet Comprising Polymer-Coated Paper," summer 2008
- Departmental Honors research with Christopher Kitchens: "Preparation and Synthesis of Cellulose Nanocrystals," fall 2007 to spring 2009



**2009 Goldwater Scholar**

Moore, S.C.

Major: Chemical Engineering

*The Next Chapter.* As graduate school, medical school, work and life emerge on their horizons, the senior scholars are ready for

**Zachary Musgrave:** "I've had some serious research experience thanks to my involvement in the NSP. Worrying about whether I can handle the rigors of a certain program isn't in my repertoire. I can do anything that interests me. NSP has reinforced that mantra."

**Jennifer Moffitt:** "The past four years have prepared me to do what I love to do, and I can't wait to get started! When I went to the career fair and talked to potential employers, they were amazed at all I was able to accomplish during my time in college. I have no doubt that I would be less appealing as a candidate for any job or graduate school if I were not a National Scholar."

**Elizabeth Sloan:** "Clemson and the NSP have prepared me for my next step in life — medical school. Not only am I confident in my abilities, I am also more aware of my strengths and weaknesses as a person and a student. With this knowledge, I know that I can achieve anything that I set my mind to accomplish."

# Zachary Musgrave



Greensburg, Pa.  
Majors: Computer Science and English

## Key Involvement, Leadership and Recognition:

- WSBF-FM 88.1 (general manager, computer engineer)
- *The Tiger* student newspaper (copy editor, assistant section editor)
- Alpha Lambda Delta Honor Society
- Upsilon Pi Epsilon national honor society
- Sigma Tau Delta (English honor society)

## Select Learning Experiences:

- Departmental Honors research with D.E. Stevenson, Ph.D., Department of Computer Science: "Ontological Uncertainty in the Semantic Web"
- Teaching assistant, Web design, Duke University Talent Identification Program, Texas A&M University, summer 2009
- Presentation, 2010 ACM Conference on Computer-Supported Cooperative Work
- National Science Foundation Research Experience for Undergraduates: "Parallelization of a Genome Annotation Pipeline Using a Master/Worker Model," University of Notre Dame, summer 2010

the challenges ahead.

*Susie Irizarry:* "By the time I graduate Clemson, I hope to have left a positive mark on the University. If I have improved one individual's Clemson experience, then I will feel justified as a Clemson graduate. The University has fostered my growth as a student and citizen, and in leaving, I hope to have fostered the University's continued growth and success."

*Patty Smith:* "Because I was able to get bits of experience in different fields through internships, research, classes, talking with professors, etc., I am much more confident that I've found a postgraduate plan I'm genuinely excited about, despite enrolling as a freshman with very minimal direction."

*Reid Sanders:* "The unique and eclectic experiences, people and ideas that the NSP provided allowed me to become not only more open-minded but decisive, knowledgeable about gaining knowledge and qualified for many more careers."



# Reid Sanders

## Key Involvement, Leadership and Recognition:

- Clemson Fencing Club

## Select Learning Experiences:

- EUREKA! summer honors research with Miguel Larsen, Ph.D., Department of Physics: "Comparison of ICS Radar and Rocket Neutral Wind Data in Mesosphere and Lower Thermosphere," summer 2007
- Creative Inquiry with Hiren Maharaj, Ph.D., Department of Mathematical Sciences: "Analyzing and Extending the paper 'Quantum Information Cannot be Completely Hidden in Correlations: Implications for the Black-Hole Information Paradox,' Samuel L. Braunstein and Arun K. Pati," 2008
- National Science Foundation Research Experience for Undergraduates: "Determining Optimal Cuts for 120 GeV P+P Collisions at Fermilab e906 Experiment," Los Alamos National Laboratory, Los Alamos, N.M., summer 2009



Horse Shoe, N.C.

Majors: Mathematics and Physics

*Farewell, National Scholars program!* While the NSP cannot claim full credit for shaping the scholars into who they have

*Caitlin Foulser:* "The NSP created a culture of intellectual curiosity that has encouraged me to question and explore the world around me. I know that this outlook will serve me well in every aspect of life, whether personal, academic or professional."

*Susie Irizarry:* "From my first semester as a National Scholar, I began receiving individualized attention and encouragement to pursue my goals and push the boundaries of my comfort zone. The support and encouragement have not waned. As a senior, I look back and see that the guidance and support I received from the National Scholars community have contributed to my successes at Clemson."

*Zachary Musgrave:* "I never thought I would be able to complete two bachelor's degrees in the standard four years, but NSP helped me formulate a plan of attack to achieve my goals. It's the personal attention I received during my time at Clemson that surprised me the most."



Dallas, Texas  
Major: Bioengineering

## Key Involvement, Leadership and Recognition:

- Department of Bioengineering Larry S. Bowman Outstanding Junior Award
- Gamma Phi Beta Sorority (chaplain)
- Golf Team (treasurer)
- Undergraduate teaching assistant for the General Engineering Program
- Golden Key International Honor Society
- Phi Kappa Phi Honor Society
- Tau Beta Pi Engineering Honor Society (social chair)
- Omicron Delta Kappa, the National Leadership Honor Society

## Select Learning Experiences:

- Departmental Honors research with John DesJardins, Ph.D., Department of Bioengineering: "Analysis and Damage Characterization of Posterior Stabilized Total Knee Joint Replacement Posts"
- Genetic research internship, Texas Scottish Rite Hospital for Children, summer 2009
- University of Texas-Southwestern Undergraduate Medical Research Fellowship, Department of Immunology, summer 2010
- Presentation: "Analysis and Damage Characterization of PS Total Knee Joint Replacement Posts," 2010 Biomedical Engineering Conference, Austin, Texas

become, the scholars themselves appreciate the ways in which the program has challenged them and supported them as they've faced new experiences.

*Elizabeth Sloan:* "First semester sophomore year I became really sick and was eventually diagnosed with rheumatoid arthritis. The NSP gave me a strong support base to help me overcome that adversity."

*Pay Smith:* "The NSP has provided a constant support system, both formally and informally, to encourage and help me meet my goals. As I was gradually coming to a decision about my postgraduate plans, the program reminded me to keep pursuing things until I found the path that I felt was best for me."

*Achieng Adongo:* "The NSP helped me figure out what I wanted to do. The full scholarship allowed me to make mistakes and try new opportunities without having to worry about the financial debt."

# Ray Smith

## Key Involvement, Leadership and Recognition:

- Dixon Fellows Program
- Honors College ambassador
- Calhoun Honors College committee
- American Institute of Chemical Engineers
- Tau Beta Pi Engineering Honor Society
- 2009 Sophomore Excellence Award for Academic Excellence in Chemical Engineering

## Select Learning Experiences:

- EUREKA! summer honors research with Sarah Harcum, Ph.D., Department of Bioengineering: "Protein Production Using Highly Reduced Genome E. coli," summer 2007
- Study abroad, Ecuador, summer 2008
- National Science Foundation Research Experience for Undergraduates: National Renewable Energy Lab, Denver, Colo., summer 2009
- Departmental Honors research with David Bruce, Ph.D., Department of Chemical Engineering: "Computer Modeling of Polymer Systems"
- Research internship, Department of Chemistry, University of Texas at Austin, summer 2010



Birmingham, Ala.  
Major: Chemical Engineering

*Farewell, Clemson!* If Clemson is a family, then the NSP is a close-knit group of brothers and sisters who will miss each other

*Judith Crews:* "There is a whole network that comes with the NSP. I know that I already miss the older scholars who graduated before me, and I am certain I will have the same feelings for the younger scholars when I leave."

*Zachary Musgrave:* "Many of my best friends at Clemson are also National Scholars; this is no accident! By traveling all over the world together, having intimate seminars where the professor sits next to the students on a couch instead of at the front of a huge auditorium and attending elective events — social, academic and professional — NSP students bond."

*Joshua von Fange:* "I've learned that it is extremely important to have a small group of close friends, friends you can call from across the world at any time of day. Achieving great things is only as enjoyable as the people you have to share them with."



# Joshua von Fange



Columbia, S.C.  
Majors: Industrial Engineering and  
Modern Languages-Chinese

## Key Involvement, Leadership and Recognition:

- Navigators
- Intramurals (soccer)
- Chinese-English Corner
- Outstanding performance in Chinese Studies scholarship awarded by Chinese government

## Select Learning Experiences:

- Intensive Mandarin language program, Dalian University of Technology, Dalian, China, 2008-2009
- Internship in business effectiveness, KPMG Advisory Services, Atlanta, Ga., summer 2010
- Lean and Design for Six Sigma Certification Program
- Six Sigma Black Belt Certification Program
- Capital projects supply chain research in conjunction with Fluor Corp. and Department of Industrial Engineering

as they leave campus.

*Elizabeth Sloan:* "I will miss the camaraderie of all those involved in the NSP, my friends that I have made at Clemson and Clemson as a whole. I will miss the slow, Southern living, the beauty Clemson has to offer and the wonderful people that make up the Clemson student body and faculty."

*Ray Smith:* "I hope to have a standing connection with the parts of the Clemson community with which I have become so close over these four years."



## Third-year Scholars

### **Katharine Amalfitano**

Mansfield, Ohio  
Health Science

### **Maeve Budi**

Beaufort, S.C.  
Polymer and Fiber Chemistry

### **Nicole Dallaire**

Sterling, Va.  
Architecture

### **Rebecca Deery**

Lexington, Ky.  
Biological Sciences and  
Secondary Education

### **Lauren Harroff**

Concord, N.C.  
Biosystems Engineering

### **Lauren Hock**

Naperville, Ill.  
Psychology

### **Taylor Hughes**

Greer, S.C.  
Health Science

### **James Hyde**

Saluda, N.C.  
Bioengineering

### **Kimberly Ingram**

Dacula, Ga.  
Communication Studies and  
Political Science

### **Zan Isgett**

Mount Pleasant, S.C.  
Genetics

### **Ariel Nissan**

Ridgecrest, Calif.  
Bioengineering



## Second-year Scholars

### Chris Covey

Old Saybrook, Conn.  
Microbiology

### Brown Farinholt

Richmond, Va.  
Computer Engineering

### Liz Johnson

Galena, Ohio  
Finance

### Matt Kofoed

Simpsonville, S.C.  
Bioengineering

### Nadine Luedicke

Columbia, S.C.  
Bioengineering

### Anna Merryman

Myrtle Beach, S.C.  
Bioengineering

### Edward Sullivan

North Potomac, Md.  
Computer Engineering

### Taylor Wells

Columbia, S.C.  
Industrial Engineering

## First-year Scholars

### Ross Beppler

Johns Creek, Ga.  
Mechanical Engineering

### Preston Berkeley

Ranson, W.Va.  
Bioengineering

### Chris Hapstack

Greenville, S.C.  
Mechanical Engineering

### Jessica Lau

Glen Allen, Va.  
Bioengineering

### Fielding Lowrance

Greenville, S.C.  
Architecture

### Karl Lykken

Wheaton, Ill.  
Mathematical Sciences

### Jenny Tumas

Los Alamos, N.M.  
Communication Studies

### Sarah Waddill

Rock Hill, S.C.  
Mechanical Engineering

# Alumni



Seven classes of National Scholars have graduated, and each has moved on to pursue further studies at leading universities around the world and employment with Fortune 500 companies.



- **Jill Allen '08:** Harvard University, master's in urban planning
- **Damon Andrews '08:** University of Iowa, law school
- **Darcy Boan Austin '04:** Georgia State University, master's in teaching
- **Alexandra Barkett '10:** Quad Graphics, placement into a leadership development program
- **Brent Berkompas '10:** Courier Printing, Nashville, placement into a leadership development program
- **Elizabeth Billheimer '10:** Virginia Tech, master's in accounting
- **Paul Blichmann '10:** Clemson University, master's in bioengineering
- **Bethany Moore Boerckel '09:** University of South Carolina, master's in library science
- **Mark Boerckel '09:** ATD Charleston, trading analyst

- **Colby Mistovich Brooks '08:** Capgemini Inc., telecommunications development manager, Atlanta, Ga.
- **Juston Brown '08:** Clemson University, master's in civil engineering
- **Kristina Catani '09:** Clemson University, master's in economics
- **Amanda Cheung '06:** University of South Carolina, medical school
- **Katherine Chisholm '05:** Centers for Disease Control and Prevention International Emerging Infections Program, research epidemiologist, Cairo, Egypt; Emory University, M.P.H. in global epidemiology
- **Clarice Seifert Clemmens '05:** Hospital of the University of Pennsylvania, otolaryngology resident, Philadelphia; Medical University of South Carolina, M.D.
- **Matt Clemmens '07:** Consultant for Blackbaud Inc.
- **Jeff Clinkscales '07:** University of South Carolina, medical school
- **Ashley Dahl '04:** University of Alabama-Birmingham, M.D.
- **John Dixon '08:** Harvard University, Ph.D. in the history of American civilization
- **Rob Dixon '07:** Carnegie Mellon University, master's in robotics
- **Shannon Edd '10:** Stanford University, Ph.D. in mechanical engineering
- **Colleen Gleeson Eils '08:** University of Texas-Austin, Ph.D. in English
- **Brian Eyink '06:** Law clerk to Judge Gerald Bard Tjoflat, U.S. Court of Appeals, Eleventh Circuit, Jacksonville, Fla.; Duke University, J.D.
- **Ben Garrison '09:** Clemson University, master's in computer engineering
- **Randy Gelhausen '10:** Accenture Inc., systems integration consultant
- **Joseph Godsey '04:** Adidas Group, senior business solution manager, Herzogenaurach, Germany; General Electric, placement into highly selective advanced leadership training program
- **Stephen Gosnell '07:** UC-Santa Barbara, Ph.D. in biology
- **Mark Gramling '05:** UNC-Chapel Hill, Ph.D. in immunopathology
- **Michael Griswold '09:** Deputy finance director, Holleman for Education
- **Casey Hancock '06:** Sonoco Products Co., research and development chemist, Hartsville, S.C.
- **Laura Hart '07:** University of Cincinnati, medical school
- **Jacob Hicks '05:** University of Georgia, Ph.D. in mathematics
- **Kate Hicks '07:** Medical University of South Carolina, medical school; Clemson University, master's in biosystems engineering
- **Lucas Hurd '10:** University of Wisconsin, Ph.D. in engineering physics
- **Kelly Jones '07:** West Virginia University, medical school
- **Jamie Kearns '06:** Columbia (N.Y.) University, medical school
- **Matt Kerr '04:** University of Washington, Ph.D. in physics; Cambridge (U.K.), advanced studies in mathematics
- **Rachel Rhyne Kimrey '06:** Clemson University, master's in education
- **Nathan Kwan, '08:** Johns Hopkins University, master's in electrical engineering; Northrop Grumman systems engineer
- **Stephen Lareau '08:** UNC-Chapel Hill, law school
- **Rahul Loungani '10:** Medical University of South Carolina, medical school
- **Michelle Malecha '04:** General Electric, placement into highly selective advanced leadership training program; Duke University, MBA
- **Robert McCowen '04:** Graduate Research Fellow, Western Michigan University Mallinson Institute for Science Education
- **Ahmed Mohiuddin '06:** Medical University of South Carolina, medical school

- **Erica Morrison '10:** Clemson University, master's in graphic communications
- **Meredith Myers '10:** Boston Conservatory, master's in musical theater
- **Ashley Neal, '04:** Children's Hospital of Philadelphia, pediatric resident, Philadelphia; Yale University, M.D.
- **Andrew Park '09:** Vanderbilt University, Ph.D. in chemical engineering
- **Suzanne Sawicki Parks '09:** Clemson University, Ph.D. in bioengineering
- **Lori Pindar '09:** University of Georgia, master's in journalism
- **Laura Kulikowski Pollock '09:** Cornell University, veterinary school
- **Jennifer Rahn '10:** Vanderbilt University, medical school
- **Jenny Alley Reeves '05:** Johnson & Johnson Vision Global Marketing, research senior analyst, Jacksonville, Fla.; University of Georgia, master's in marketing research
- **Chelsea Reighard '08:** Teach for America in New York City; Bank Street College of Education, master's in education
- **Will Sams '05:** Georgia Tech, master's in physics; North Carolina State, Ph.D. in physics
- **Christen Smith '07:** Peace Corps assignment in Ethiopia; Princeton University, master's in public policy
- **Lauren Smith '07:** Corporate auditor, General Electric; General Electric, placement into highly selective advanced leadership training program
- **Will Spink '05:** Associate pastor, Southwood Presbyterian Church, Huntsville, Ala.; Covenant Theological Seminary, master's in divinity
- **Ryan Spurrier '08:** Duke University, master's in divinity
- **Michael Stadnisky '05:** University of Virginia, Ph.D. in infectious disease
- **Jeremy Stovall '05:** University of Vermont, master's in natural resource management; Virginia Tech, Ph.D. in forestry
- **Ben Ward '09:** Vanderbilt University, Ph.D. in economics
- **Elizabeth Ward '04:** Attorney, Tennessee Valley Authority; University of Tennessee, J.D.
- **Suzanne Weaver '07:** UNC-Chapel Hill, medical school
- **Chris Welch '04:** UNC-Chapel Hill, medical school and Ph.D. in pharmacology
- **Yousef Yasin '07:** Wake Forest University, medical school
- **Amanda Youell '07:** Teacher, Pope John Paul II High School, Hendersonville, Tenn.; Vanderbilt University, master's in math education
- **Jeff Young '05:** Georgia Tech, Ph.D. in computer engineering
- **Joe Ziska '05:** Clemson University, master's in economics; IT consultant, BMW

# Clemson's Premier Scholarship Program



OUR PROGRAM

The Clemson University National Scholars Program provides a select number of extraordinary freshmen with an extraordinary educational experience that includes the following:

- A competitive four-year scholarship
- Summer study in Europe
- Academic seminars that explore critical thinking and leadership
- Ongoing enrichment opportunities throughout the year

The Clemson National Scholars are also members of Calhoun Honors College, which provides advanced course work and research opportunities as well as support in competing for major national and international fellowships. Clemson University is committed to providing an unmatched undergraduate experience to each of our Clemson National Scholars.

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# Mentor Awards



Since our first graduating class, each cohort of National Scholars has chosen faculty and staff to honor with the National Scholars Program Award of Distinction. This recognition goes to individuals for their tireless commitment to the intellectual, professional and personal development of each graduating class of scholars. These are our recipients.

- **Scott Baier, Ph.D.**, economics professor
- **Stephanie Barczewski, Ph.D.**, history professor
- **Alma Bennett, Ph.D.**, English professor
- **Richard Blob, Ph.D.**, biological sciences professor
- **A.B. Bodine, Ph.D.**, animal and veterinary sciences professor
- **James Bottum**, vice provost and chief information officer
- **Neil Burton, Ph.D.**, cooperative education program
- **Bruce Clark**, Obama campaign deputy director
- **Patti Connor-Greene, Ph.D.**, psychology professor
- **Murray Daw, Ph.D.**, physics professor
- **Angela Dills, Ph.D.**, economics professor
- **Roy Dodd, Ph.D.**, bioengineering professor

- **Sherry Dorris**, FIRST program coordinator
- **Michael Dorsch, Ph.D.**, marketing professor
- **William Dougan, Ph.D.**, economics professor
- **Caye Drapcho, Ph.D.**, bioengineering professor
- **Robert Geist, Ph.D.**, computer science professor
- **C. Lane Glaze**, Wesley Foundation campus minister
- **Harry Harritos**, architecture professor
- **Chris Heavner**, Lutheran campus minister and Habitat for Humanity adviser
- **Robert Hogan**, architecture professor
- **Stephen Hubbard, Ph.D.**, electrical and computer engineering professor
- **Karyn Ogata Jones, Ph.D.**, communications studies professor
- **Robin Kowalski, Ph.D.**, psychology professor
- **Martine LaBerge, Ph.D.**, bioengineering professor
- **Miguel Larsen, Ph.D.**, physics professor
- **Patricia Layton, Ph.D.**, environmental and natural resources professor
- **Nancy Leininger**, graphic communications professor
- **Michael LeMahieu, Ph.D.**, English professor
- **Jeff Love, Ph.D.**, languages and humanities professor
- **Steven Marks, Ph.D.**, history professor
- **Vladimir Matic, J.J.D.**, political science professor
- **Todd May, Ph.D.**, philosophy professor
- **Rachel Mayo, Ph.D.**, public health sciences professor
- **Bobby McCormick, Ph.D.**, economics professor
- **Tamara McNutt-Scott, Ph.D.**, biological sciences professor
- **Jim Morris, Ph.D.**, biochemistry professor
- **Liam O'Hara, Ph.D.**, graphic communications professor

- **Gary Powell, Ph.D.**, biochemistry professor
- **Eric Seiber, Ph.D.**, public health sciences professor
- **Kerrie Seymour**, performing arts professor
- **Kelly Smith, Ph.D.**, philosophy professor
- **Melissa Smith, Ph.D.**, electrical and computer engineering professor
- **Zeynep Taydas, Ph.D.**, political science professor
- **Lesly Temesvari, Ph.D.**, biological sciences professor
- **Mark Thies, Ph.D.**, chemical engineering professor
- **Charles Thomas, Ph.D.**, economics professor
- **Terry Tritt, Ph.D.**, physics professor
- **Jerry Waldvogel, Ph.D.**, biological sciences professor
- **John Ziegert, Ph.D.**, mechanical engineering professor

# A Great University

Clemson University is a nationally ranked science- and technology-oriented public research university known for its emphasis on collaboration, focus and a culture that encourages faculty and students to embrace bold ideas. Its teaching, research and outreach are driving economic development and improving quality of life in South Carolina and beyond. Clemson is a high-energy, student-centered community dedicated to intellectual leadership, innovation, service and a determination to excel. The University offers a teaching and learning environment more common to private, liberal arts colleges, but with the increased academic, community service and social opportunities found at a major public university, all on a beautiful campus surrounded by lakes, forests and mountains. More than 17,000 students call Clemson home and pursue degrees in approximately 80 undergraduate and 110 graduate degree programs, from engineering and the sciences to business and English.







